AREAS OF COMMON PLANE FIGURES

circle
$$-- \frac{7}{7}^2 = \frac{1}{4} \frac{7}{7} d^2 = .785 d^2 = 78.5\%$$
 of enclosing square

sphere ---
$$4//r^2 = 12.57 r^2 = 7/ d^2$$

annulus ---
$$0.7854 (0.0^2 - 1.0^2)$$

VOLUME OF COMMON SOLID SHAPES

sphere ---
$$4/3// r^3 = 4.189 r^3 = 1/6// d^3 = 52.36\%$$
 of enclosing cube

cylinder
$$-- \pi^2$$
h or 78.54% of enclosing box

cone
$$\frac{77}{3} r^{2} h \quad \text{or } \frac{h}{3} \text{ (area of base)}$$